Influence of temperature on the ... 5/186/62/004/005/004/009 E075/E135

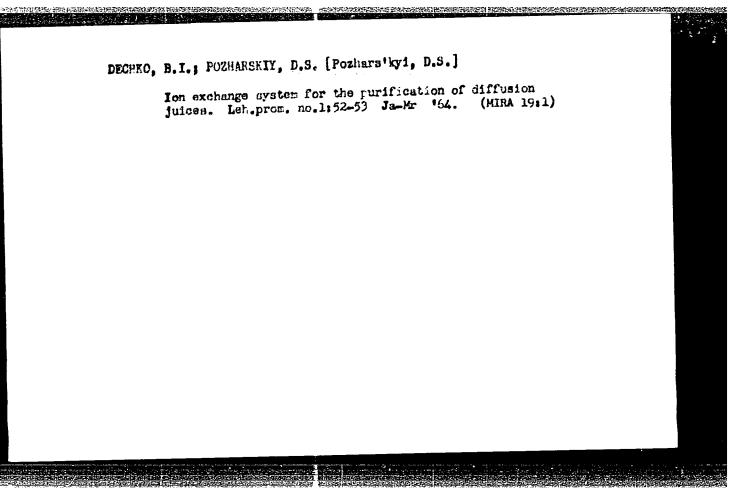
for HNO3 > 6N. This is contrary to the effect of temperature on solutions containing $Pu(NO3)5^{-}$, where the increase of temperature increases complex formation. Oxygen exchange and infra-red spectroscopy studies indicate that in the aqueous phase there are two kinds of UO_2 ions - $\begin{bmatrix} UO_2(H_2O)_2 \end{bmatrix}^{2+} \rightleftharpoons \begin{bmatrix} U(OH)_4 \end{bmatrix}^{2+}$. The UO_2 ions have octahedral structure, whereby OH groups, or two 0 atoms and two H20 molecules, are situated in a plane with sexavalent U in the centre and two H20 molecules situated at the apexes of the octahedron. The planar structure of $\begin{bmatrix} U(OH)_4 \end{bmatrix}^{2+}$ is due to hybrid f^3d bonds. Analogous complexes are formed by Np, Pu and Am, the stability of the sexavalent ions in aqueous solutions decreasing in the order $\begin{bmatrix} U(OH)_4 \end{bmatrix}^{2+}$, $\begin{bmatrix} Np(OH)_4 \end{bmatrix}^{2+}$, $\begin{bmatrix} Pu(OH)_4 \end{bmatrix}^{2+}$ and $\begin{bmatrix} Am(OH)_4 \end{bmatrix}^{2+}$. The decrease is due to the increasing number of single electrons in the series. The planar configuration does not exist for Cm.

There are 2 ligures and 5 tables

SUBMITTED: August 5, 1961

Card 2/2

P02	ZHARSKIY, D.	
	Light industry combines. Prom. stroi. i insh. scor. 2 no. 1:34-40 Ja 160. (MIRA 14:1)	
	1. Glavnyy inzhener Ukrgiprolegiroma. (Factories—Design and construction)	
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s/081/63/000/001/039/061 B144/B186

AUTHOR:

Pozharskiy, F. T.

TITLE:

Synthesis of 5-chloro furfural

PERIODICAL:

Card 1/2

Referativnyy zhurnal. Khimiya, no. 1, 1963, 213, abstract 1Zh135 (Uch. zap. Rostovsk.-n/D. un-ta, v. 60, 1959, 207-209)

TEXT: A method is described for obtaining 5-chloro furfural (I) by chlorination of furfural (II) or its diacetate (III). Through the mixture of 0.5 mole of III, 300 ml dichloro ethane, 0.001 mole hydroquinone and 0.001 mole of S (70°C), 1 mole of dry Cl₂ is passed (1 hr); the mixture is boiled for 2 hrs; the solvent is distilled off; the residue is distilled at 20 mm (< 110°C), I is separated from the distillate by distillation with vapor: yield 44%, m.p. 32-33°C (from 50% alcohol). Under analogous conditions, II yielded I with an output of 12-14%. Cl₂ is passed (1.5 hr) through the mixture of 0.5 mole of III, 250 ml 06H6, 0.002 mole hydroquinone and 0.001 mole of S (60°C, protected from light), the mixture

Synthesis of 5-chloro furfural

S/081/63/000/001/039/061 B144/B186

is boiled for 2 hrs, and I is obtained: yield 28.4%. [Abstracter's note: Complete translation.]

Card 2/2

SIMONOV, A.M.; MARTSOKHA, B.K.; POZHARSKIY, F.T.

Derivatives of indazole. Part 1: Reaction bf
1-benzylindazole with sodium amide. Zhur.ob.khim.
33 no.3:1001-1005 Mr 163. (MIRA 16:3)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

(Indazole) (Amides)

PROTSENKO, Petr Ivanovich; POZHARSKIY, F.T., red.; ZARKHINA, I.Ya., red.; PAVLICHENKO, M.I., tekhn. red.

[Outline of the development of chemistry at the Rostov University]
Ocherk razvitiia khimii v Rostovskom universitete. Rostov-na-Domu,
Izd-vo Rostovskogo univ., 1960. 213 p. (MIRA 14:9)
(Rostov-on-Don-Chemistry-Study and teaching)

NAZAROVA, Z.N.; POZHARSKIY, F.T.

5-chlorofurfurylnitroolefins. Zhur.ob.khim. 28 no.6:1503-1505
Je '58.

1.Rostovskiy-na-Donu gosudarstvennyy universitet.

(Furfuryl) (Ethane) (Methane)

SIMONOV, A.M.; MARTSOKHA, B.K.; POZHARSKIY, F.T.

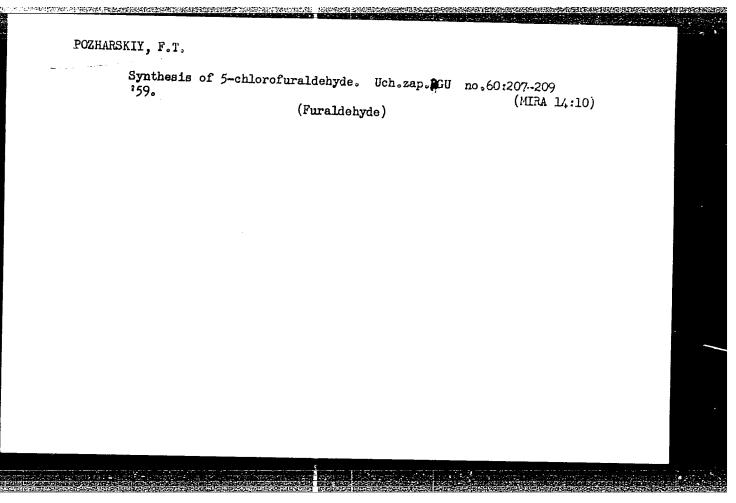
Pyrazole ring expansion under the effect of sodium amide. Zhur.ob.
khim. 32 no.7:2388-2389 Jl '62. (MIRA 15:7)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.
(Benzimidazole) (Sodium amide)

SIMONOV, A.M.; POZHARSKIY, F.T.; CHEBYSHEVA, L.L.

Substituted amides of furancarboxylic acids. Izv.vys.ucheb.zav; khim.i khim.tekh. 4 no.5:798-800 '61. (MIRA 14:11)

1. Rostovskiy gosudarstvennyy universitet, kafedra organicheskoy khimii. (Amides) (Furoic acid)



AUTHORS:

Nazarova, Z. N., Pozharskiy, F. T.

SOV/79-28-6-13/63

TITLE:

5-Chlorofurfurylnitroolefins (5-Khlorfurilnitroolefiny)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol. 28, Nr 6, pp. 1503-1505 (USSR)

AESTRACT:

Nazarova showed earlier that the halogen furfuroles containing bromine and iodine in position 5 of the furfuran nucleus can earily enter condensation with nitroparaffins. The present paper is the continuation of these investigations. It deals with the condensation products of 5-chlorofurfurole with nitroparaffins, which has hitherto not been carried out in spite of many similar condensations. In the last years a great number of papers and patents recommending the nitroolefins of the aromatic and furfuran series as insecticides (Ref 4) were published. As the introduction of a balogen atom to the furfuran nucleus stabilizes the latter and increases its bactericide effect, it was to be expected that the condensation investigated by the authors might be of practical interest. The condensation of 5-chlorofurfurole with nitromethane and nitroethane was carried out, with the method by Moldenhauer (Mol'dengauer) having been somehow modified. It was possible to synthesize 5-chlorofurfurylnitroethylene (formula I) in a yield of 86%.

1/2

5-Chlorofurfurylnitrcolefins

SOV/79-28-6-13/63

The 5-chlorofurfurylnitropropene (II) was obtained in a yield of 79% according to the method described earlier (Ref 1):

The 5-chlorofurfurylnitroolefins, recrystallized from alcohol, form light-yellow pins and can be solved only in organic solvents. There are 7 references, 4 of which are Soviet.

ASSCCIATED:

Rostovskiy-na-Donu gosudarstvennyy universitet

(Rostov-na-Donu State University)

SUFMITTED:

June 11, 1957

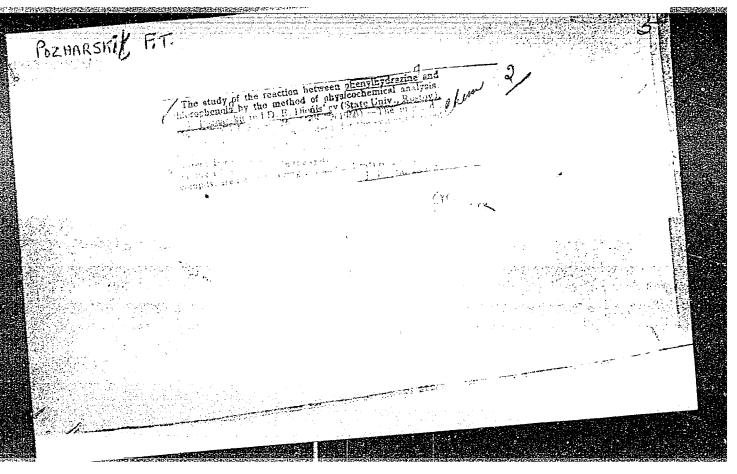
1. Furfurals--Condensation reactions 2. Nitromethanes--Condensation reactions

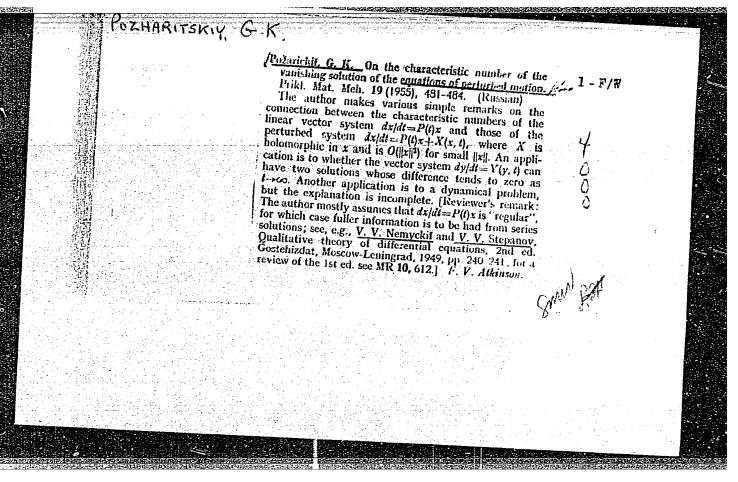
Card 2/2

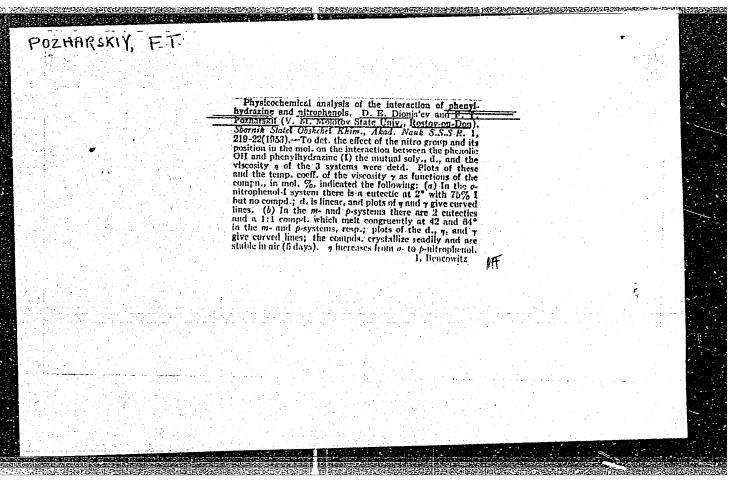
POZHARSKIY, F.T.; NABOKA, N.F.

Synthesis of N-acylindazoles and 6-acyleminoindazoles with furan nuclei. Zhur.ob.khim. 31 no.6:1934-1936 Je '61. (MIRA 14:6)

1. Rostovskiy-na-Dom: gosudarstvennyy universitet.
(Indazole) (Furan)







POZHARSKIY, F.T.; SAYAPIN, V.G.; MARTSOKHA, B.K.

Halogenation of indazole and its derivatives by complex compounds of halogens with dioxane. Zhur. ob. khim. 34.
no.8:2777-2778 Ag '64. (MIRA 17:9)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

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POZHARSKIY, F.T.; KA7ANBIYEVA, M.A.; TERTOV, B.A.

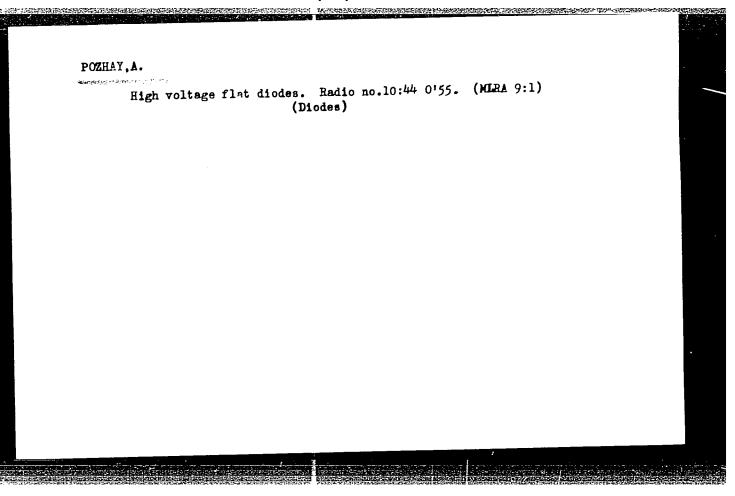
1-Hydroxymethyl derivatives of indazoles. Zhur. ob. Khim. 34 no.10:
3367-3370 0 '64.

1. Rostovskiy-na-Donu gosudarstvennyy universitet.
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SINYAGIN, Irakliy Ivanovich, akademik; PASKHIN, N.F.; NIKONOVA, Ye.A., dots.; POZHARSKIY, V.K.; OCRYZKOV, S.Ye., kand. veter. nauk; IOZHKIN, N.I., kand. biol. nauk; MURONETS, I.I., red.; VILENSKAYA, O.V., red.-leksikograf; ARTEMOV, L.V., red.-leksikograf; VACHAYEVA, Z.P., red.-leksikograf

[German-Russian agricultural dictionary] Nemetsko-russkii sel'skokhoziaistvennyi slovar'. Moskva, Sovetskaia Entsiklopediia, 1965. 684 p. (MIRA 18:7)

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Sinyagin).



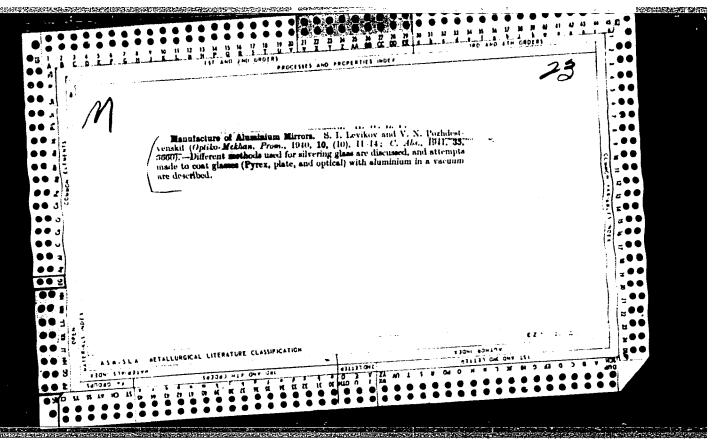
POZHAYEVA, N. S. (Dotsent)

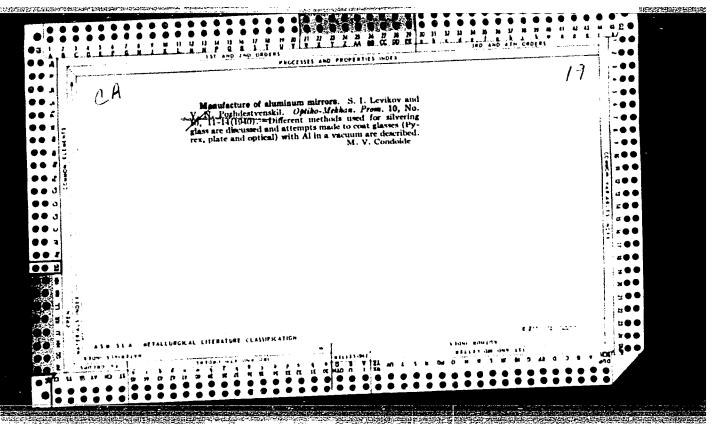
"K Voprosy o Regionarnoy Sosudistoy Patologii Golovnogo Mosga."

p. 82 V sb Aktual'nyye Problemy Nevropatologii i Psikhiatrii. Kuybyshev. 1957.

Iz kafedry Kuybyshevskogo Gosudarstvennogo Meditsinsksog Instituta.

1.1. 21/47/4 POZE ESTERSITY, C. D. Mar/Apr 53 USSR/Geography - Flood Streams "Conference on the Study of Flood Streams," M. A. Velikanov and G.D. Pozhdestvenskiy "Iz Ak Nauk SSSR, Ser Geograf" No 2, pp 72-75 Discussion of the All-Union Conference of the Commission for Studying Flood Streams Acad Sci USSR held 23 - 29 Oct 52 in Toilisi. The Acad Sci Georgian SSR and the Georgian Sci Res Inst of Hydraulics and Land Improvement were represented at the conference. There were ten sessions, at which twenty reports were presented. 246156





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poruzia, Vu. V.	
POTUREL, Mr. K.: "The behavior of certain sericenductors in strong electrical fields." Leningrad Order of Lemin State W imeni A. A. Shdarov. Icringrad, fields." Leningrad Order of Lemin State W imeni A. A. Shdarov. Icringrad, 1976. (Dissertation for the Degree of Candidate in Physicomatheretical Science.)	
vnizhneva letopis', No. 30, 3050. Noseou.	

POZHELA, Yu. K.

"On the Behavior of Semiconductors in Powerful Electrical Fields," by Yu. K. Poznela, Institute of Semiconductors, Academy of Sciences USSR, Radiotekhnika i Elektronika, No 8, Aug 56, pp 1106-1112

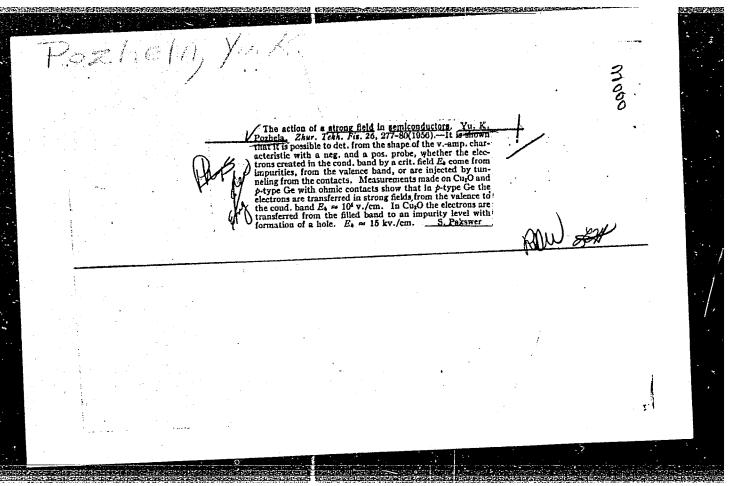
From experiments conducted at the Laboratory of V. P. Zhuze of the Institute of Semiconductors it can be concluded that, despite the limitations and difficulties of obtaining a nonrectifying point contact, the tions and difficulties of obtaining a nonrectifying point contact, the "probe" method yields a series of important factors concerning the conduct of semiconductors in powerful electrical fields.

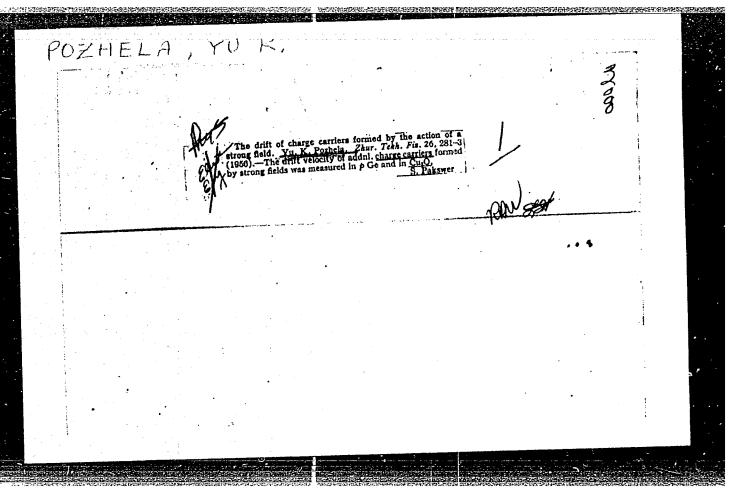
For example, p - Ge and Cu₂O permitted us to determine which way additional current carriers appear as the result of the action of a powerful field and to make some conclusions concerning the mechanism of this phenomenon. Moreover, it was directly proved that the additional carriers are responsible for the increase of semiconductor electrical conductivity in a powerful electrical field.

In the case of p-Ge, the drift of the carriers was observed and in the case of Cu_2O , their lifetime was measured.

Appreciation was expressed to Academician A. F. Ioffe, V. P. Zhuze, and G. E. Pikus for their assistance in carrying out the experiment.

Sum 1274





69187

sov/137-59-12-27056

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 12, p 183 (USSR)

24.770 9.4120

AUTHOR:

Pozhela, Yu.

TITLE:

The Effect of a Strong Field in Semiconductors

PERIODICAL:

Uch. zap. Vil'nyussk, un-t., 1958, Vol 25, pp 117 - 120

ABSTRACT:

The author suggests the introduction of minor charge carriers into a semiconductor by the action of a strong electric field. On the basis of an analogy of phenomena in gas discharge and the effect of a strong field in semiconductors, it is assumed that semiconductors can be used

to develop thyratron type trigger devices.

R.O.

Card 1/1

24.7700 AUTHORS:

Gashka, I. I., Pozhela, Yu. K.

SOV/181-1-9-18/31

TITLE:

Measurement of Electrical Parameters of a Semiconductor by

Means of the shf-Technique

PERIODICAL:

Fizika tverdogo tela, 1959, Vol 1, Nr 9, pp 1431 - 1433 (USSR)

ABSTRACT:

The authors determined lifetime, sign and mobility of the minority carriers in germanium by means of an apparatus devised specially for this purpose, and whose block diagram is shown in figure 1. Square voltage pulses are fed into the sample by means of a pulse generator, triggered by a synchronizing block with a certain time delay with respect to the scanning triggering of the oscilloscope. From one of the sample contacts, which are situated inside the waveguide, there proceeds the injection and drift of the minority carriers within the sample volume. As a consequence thereof, the amount of conductivity changes in that part of the probe which is situated directly in the waveguide. After the pulse injection stops, conductivity goes back to its original value at a rate which is dependent on the mean life of the introduced carrier. The change in the attenuation of the electromagnetic

Card 1/2

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Measurement of Electrical Parameters of a Semiconductor SOV/181-1-9-18/31 by Means of the shf-Technique

wave in the waveguide occurring in this connection is recorded by a special indicator. Figure 2 shows a typical oscillogram of the relaxation process taking place in germanium. The carrier lifetime can be determined from the conductivity drop. The advantages of this method are discussed in detail. The method allows the injection of nonequilibrium carriers not only by means of an injection contact but also by light (light probe). Light pulse investigations of the relaxation of photoresistivity were carried out on single germanium crystals, PbS films and polycrystalline PbS disks. Next, the authors describe the determination method of sign and drift rate of the carrier. Finally, the authors thank A. I. Vebre for his assistance. There are 2 figures and 1 reference.

ASSOCIATION: Ins

Institut fiziki i matematiki AN Litovskoy SSR (Institute of Physics and Mathematics of the Litovskaya SSR). Vil'nyusskiy gosudarstvennyy universitet im. V. Kapsunansa ("ilna State University imeni V. Kapsunans)

SUBMITTED: Card 2/2 March 16, 1959

POZHELA, Yu.K. [Pozela, J.]; SAULIS, A.A. [Saulia, A.]

Injection and drift of great concentrations of minority carriers in germanium. Liet ak darbai B no.2:83-92 '60. (EEAI 10:1)

1. Institut fiziki i matematiki Akademii nauk Litovskoy SSR (Germanium) (Semloonductors) (Telephone)

S/181/62/004/006/033/051 B108/B138

247700

AUTHORS: Pozhela, Yu. K., and Shilal'nikas, V. I.

TITLE:

Emission of hot electrons from germanium

PERIODICAL:

Fizika tverdogo tela, v. 4, no. 6, 1962, 1601-1603

TEXT: Experimental evidence has been found that in a strong electric field the carriers in valency semiconductors attain high temperatures. The thermo-emf may then cause emission of hot carriers from the surface of p-type semiconductors. Experiments with germanium, however, failed unless the specimens were treated in cesium vapor to reduce the work function. There is 1 figure.

ASSOCIATION: Institut fiziki i matematiki AN Lit. SSR, Vil'nyus

(Institute of Physics and Mathematics AS LithSSR, Vil'nyus)

SUBMITTED:

February 12, 1962

Card 1/1

BANIS, T.Ya.; VEBRA, A.I.; POZHELA, Yu.K.; REPSHAS, K.K. [Repsas, K.];
SHILAL'NIKAS, V.I. [Silalnikas, V.]

Heating of the current carriers in semiconductors in strong electric fields. Radiotekh. i elektron. 7 no.9:1519-1522 S '62.
(MIRA 15:9)

1. Institut fiziki i matematiki AN Litovskoy SSR.
(Electric fields) (Semiconductors)

S/181/63/005/003/005/046 B102/B180

AUTHORS:

Card 1/2

Pozhela, Yu. K., and Shilal'nikas, V. I.

TITLE:

The problem of hot electron emission from germanium

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 730-733

TEXT: New experiments were made in order to investigate the recently discovered phenomenon of an emission of hot electrons from Si or SiC p-n junctions and from germanium surfaces after treatment in cesium vapors (FTT, 4, 1601, 1962). A sample of n-type germanium was placed in a vacuum waveguide and exposed to intense h-f pulses (60 kw, pulse duration 0.5 μsec , repetition frequency 10-50 cps, carrier frequency 10^{10} cps, field in the sample 3.5 kv/cm) and, from resistance measurements with and without field, the characteristics of I the emission current were obtained. As a function of the field amplitude I shows a similar course as for Si, Ge, or SiC p-n junctions; it tends to, but does not reach saturation. As a function of the anode voltage I does reach saturation; B=R(E)/R(0) as a function of E increases linearly and

S/181/63/005/003/005/046 B102/B180

The problem of hot electron emission ...

I/B = f(1/B²) shows an exponential decrease. The results agree with the relation I = b $\sqrt{E} \exp(-c/E^2)$, (FTT, 4, 2015, 1962), which, since B \sim and $T_e = \alpha B^2$ can be modified: I = A $\sqrt{T_e} \exp(-c/kT_e)$. If is the electron work function. On the assumption that $c = 2 \exp(-c/kT_e)$, where T_o is the lattice temperature; A = 1.6·10⁻¹a/deg^{1/2}. There are 6 figures.

ASSOCIATION: Institut fiziki i matematiki AN Lit.SSR, Vil'nyus

(Institute of Physics and Mathematics AS LitSSR, Vil'nyus)

SUBMITTED: September 18, 1962

Card 2/2

L 14949-66 EWT(1)/EWT(m)/EWP(b)/EWP(t) IJP(c) JD

ACC NR: AT5028692 SOURCE CODE: UR/2910/64/004/004/0485/0490

AUTHOR: Repshas, K. K. (Repsas, K.); Pozhela, Yu. K. (Pozela, J.)

ORG: Institute of Physics and Mathematics, Academy of Sciences of the Lithuanian SSR (Institut fiziki i matematiki Litovskoy SSR)

TITLE: Thermal electromotive force of hot electrons and electroconductivity of n-germanium in the region where it is a function of the square of electric field intensity

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 4, no. 4, 1964, 485-490

TOPIC TAGS: thermal emf, electric conductivity, electric field, germanium, electron temperature, phonon, electron temperature, pn junction, electrode

ABSTRACT: Thermal emf and electroconductivity measurements were made on a single configuration of <u>germanium</u> of 10 ohm-cm density for electric fields of up to 400 v//cm. A T-shaped block with a narrowed midsection was used to avoid injection from the electrode attachments and to concentrate the applied electric field in the narrow, treated part of the sample. In the electroconductivity measurement, a bridge

Card 1/3

L 14949-66 ACC NR: AT5028692

arrangement was used to measure change of sample resistance as a function of change in field intensity caused by a voltage pulse of 2 microsecond duration. Results show R directly proportional to E^2 for range of E covered. The thermal emf measurement on the same sample was measured between a pointed probe placed on the narrow part of the sample where there was electron heating and an ohmic contact attached to a projection where there was no electron heating. The probe and contact were located as nearly as possible on an equipotential surface. Because sinusoidal current rather than a current pulse was used, the sample tended to heat up with E > 50-100 v/cm. Since an experiment using current pulses showed that the constant of heating was several seconds per $^{\circ}$ C at E = 20 v/cm, emf measurements were made at the moment the field was turned on. Since thermal emf decreases as heating proceeds, there is considerable scatter in the data points and only qualitative conclusions may be drawn. The measured emf here was almost two orders of magnitude less than those indicated by Stenbeck. The data points are close to a line calculated from U_T =

= 2 βE^2 , where U is thermal emf, χ_0 is the height of the barrier between the "hot" n-region and "cold" p-region of the pn junction at the probe, which was taken to be 0.7 ev; and β the constant in the electroconductivity equation, $\mu_0 = \mu_0(1-\beta E^2)$; by the authors' measurement, here $\beta = 2.3 \cdot 10^{-7}$ cm²/v². The close correspondence of the upper (minimum heating of sample) data points to this line indicates that the

Card 2/3

L 14949-66

ACC NR: AT5028692

results of the two different measurement methods at least approximately agree and lead to the same values for electron temperatures. The authors thank V. Denis and R. Vashkyavichus for their help. Orig. art. has: 5 figures, 9 formulas.

SUB CODE: 20/ SUBM DATE: 22Jan64/ ORIG REF: 001/ OTH REF: 007

Card 3/3

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001342820007-4

L 30080-65

EWT(m)/EWP(t)/EWP(b)

IJP(c) JD

ACCESSION NR: AT5002022

S/2910/64/004/003/0399/0403

AUTHOR: Shilal'nikas, V. I. (Silalnikas, V.); Pozhela, Yu. K. (Pozeta.

TITLE: Hot electron emission from silicon

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 4, no. 3, 1964, 399-403

TOPIC TAGS: silicon, hot electron emission, semiconductor, microwave field, electron temperature

ABSTRACT: The theory of hot electron emission predicts that an emission current from silicon must be observed in electric fields on the order of a few kv/cm under the condition that $W_i > V_1$ (W_i is the energy which is necessary for impact ionization; V is the electron affinity). Assuming that

 $\frac{\mu (E)}{\mu (o)} = \left(\frac{T_o}{T_e}\right)$

where $\mu(E)$ and $\mu(o)$ are the mobilities of the current carriers in the electric field E and in the absence of the field, respectively, one may predict the emission current of hot electrons from silicon by determining the electron temperature, us-

Card 1/3

L 30080-65

ACCESSION NR: AT5002022

2

ing the experimental dependence of their mobility on the electric field intensity. This estimate gives 10⁴ ma/cm² when the field intensity is 3 kv/cm. In this work, the emission of hot electrons from a homogeneous n-type silicon specimen was observed. The surface of the crystal was treated with cesium to reduce the surface barrier. The hot electron emission current was 0.6 A/cm². Similar emission was observed in silicon crystals not treated with cesium. The dependence of the hot electron emission current on the electric field intensity is shown in Fig. 1 of the Enclosure. Orig. art. has: 4 figures and 1 formula.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk Litovskoy SSR (Physics and mathematics institute, Academy of sciences, Lithuanian SSR)

SUBMITTED: 30Dec63

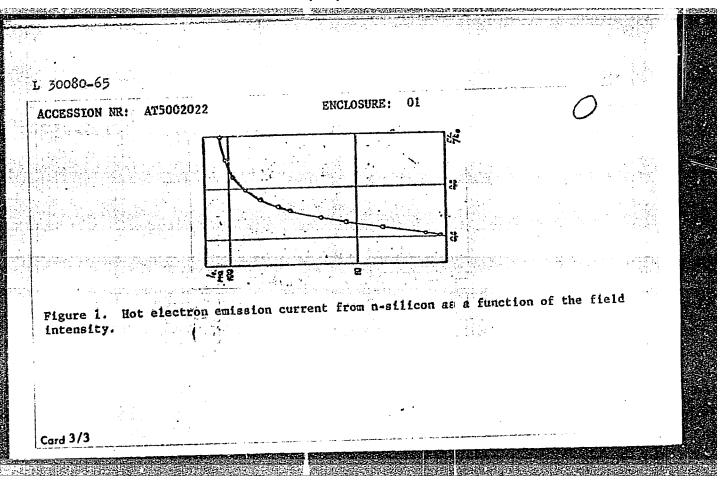
ENCL: 01

SUB CODE: SS, EC

NO REF SOV: 003

OTHER: 002

Card 2/3



E 30081-65 ENT(m)/EWP(t) ACCESSION NR: AT5002023	/EWP(b) IJP(c) JD 24 S/2910/64/004/003/0405/0412 20
	S/2910/64/004/003/0405/0412 20 alvenas, S.); Pozhela, Yu. K. (Pozela, J.)
TTLE: The effect of the sur	rface on the electrical conductivity of germanium in a
	iy fizicheskiy sbornik, v. 4, no. 3, 1964, 405-412
무를 다고 보인 속 보다 등 모양으로 보다.	trical conductivity, surface property, semiconductor ectron diffusion, electric field, microwave field
ABSTRACT: The semiconductor from the bulk of the semicon lattice as well as the prese molecules of water and gas o possesses different chemical occurrence of surface states carriers near the surface, d	surface can differ greatly in its electrical properties ductor due to geometric discontinuity of the crystal ence of vacancies, foreign impurities, and adsorbed on the surface. The surface of a semiconductor also properties than the bulk. These factors lead to the which result in a different mobility of the current different work function, rectification, recombination, a would also expect the strong field effects on the at the bulk. In this work, a study was made of the sur-

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ACCESSION NR: AT5002023

face behavior in a strong electric field. The investigated germanium specimens were rectangular rods alloyed with antimony. The magnitude of the rate of surface recombination S was determined by measuring the relaxation time of the electrical conductivity of specimen \mathcal{L}_{eff} during the injection of minority carriers. It was established that in strong electric fields the germanium surface may lead to significant changes in the concentration of the current carriers in the bulk. The authors express their gratitude to L. Klimke, M. Denene and D. Kalinauskas for their help." Orig. art. has: 4 formulas and 7 figures.

ASSOCIATION: Institut fiziki i matematiki Akademii nauk Litovskoy SSR (Physics and mathematics institute, Academy of sciences, Lithuanian SSR)

SURMITTED: 22Jan64

ENCL: 00

SUB CODE: SS, EC

NO REF SOV: 006

OTHER: 006

Card 2/2

REPSHAS. K. [Repsas, K.]; VASHKEVICHUS, R. [Vaskevicius, H.]; DENIS, V.; POZHELA, Yu. [Pozela, J.]

Hall effect in p-germanium in strong electric fields. Fiz. tver. tela 7 no.3:927-928 Mr 165. (MIRA 18:4)

1. Institut fiziki i matematiki AN Litovskoy SSR, Vil'nyus.

KAL'VENAS, S.P. [Kalvenas,S]; POZHELA, Fu.K. [Pozela, J.]

Recombination of hot current c rriers via recombination centers on a germanium surface. Fiz. tver. tela 7 no. 12:3512-3514

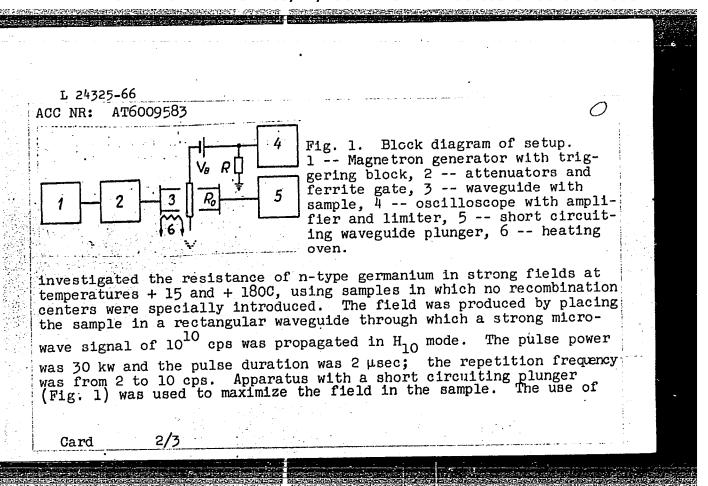
D *65 (MIRA 19:1)

1. Institut fiziki i matematiki AN Litovskoy SSR, Vil'nyus.

L 45204-65 ENT(1)/ IJB(c) ACCESSION NR: AP5006913 8/0181/65/007/003/0927/0928	
AUTHOR: Repshas, K.; Vashkevichus, R.; Denis, V.; Fozhela, Yu. 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 3/ SOURCE: Fizika tverdogo tela, v. 7, no. 3, 1965, 927-928	
TOPIC TAGS: Hall effect, carrier temperature, germanium, electric conductivity, microwave field, relaxation time ABSTRACT: The authors developed a new procedure for the measurement of transverse effects in a strong electric field in which a microwave field is used to heat the	
carriers. This procedure was used to investigate the Hall effect on hot carriers in p-type germanium (resistivity 5 chm-cm). The strong microwave field was perpendicular to the weak constant field along the sample and had to same direction as the magnetic field. The results are shown in Fig. 1 of the Enclosure. Comparison of the curves leads to the conclusion that the Hall constant in the strong microwave field is smaller than in the absence of the field. This decrease is in accord with the change occurring in the distribution function of p-Ge in strong	
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SSOCIATION: Institut fiziki i matematiki AN LitssR, Vil'nius (Institute of Physcs and Mathematics, AN LitssR)	TECOTTE TECTED OPPORTOR	erimentally and deduced	theoretically by others. In	
SSOCIATION: Institut fiziki i matematiki AN Litssr, Vil'nius (Institute of Physes and Mathematics, AN Litssr) EURNITTED: 21Jul64 ENCL: 01 SUB CODE: SS, EM	ity of the light-hole band, attent with increase in the fie	and it is probable that	the decrease in the Hall con-	•
CS and Mathematics, AN Litssr) SUBMITTED: 21.Jul64 ENCL: 01 SUB CODE: SS, EM	igure and 2 formulas.			
[일일] 전환 전환 2002년 1일 전환 전환 12일	ics and Mathematics, AN Litssi	R)		
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	L 24325-66 EWT(m)/EWP(t) IJP(c) JD ACC NR: AT6009583 SOURCE CODE: UR/2910/63/003/03-/0413/0413	
	AUTHORS: Kal'venas, S. PKalvenas, S.; Pozhela, Yu. K 64 Pozela, J.	
-	ORG: Institute of Physics and Mathematics, Academy of Sciences, Lithuanian SSR (Lietuvos TSR Moksiu akademijos Fizikos ir matematikos institutas)	
	TITLE: Recombination of hot carriers in strong electric fields in germanium in the region of intrinsic conductivity	; • • •
	SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 3, no. 3/4, 1963, 413-418	
	TOPIC TAGS: germanium, semiconductor carrier, semiconductor conductivity, electron recombination, physical diffusion, temperature dependence, carrier density, electric field	-
-	ABSTRACT: To determine the change of the carrier density under the influence of a strong field, brought about by the change in the rate of recombination under the influence of the strong field, the authors	2_
	Card 1/3	



L 24325-66 ACC NR: AT6009583

a microwave strong field eliminated the influence of the dragging of the carriers by the strong field. From the change in the resistance during the time of application of the microwave pulse it is possible to deduce the change in the recombination rate of the minority carriers, the temperature dependence of the change in the recombination rate, and the diffusion coefficient in the strong field. The methods of determining these quantities are briefly described. The results show that the recombination rate increases with increasing electric field and that the recombination centers are apparently charged. The authors thank L. Mogil'nitskiy, R. Vashkyavichus, and A. Yakuchenis for help with the work. Orig. art. has: 3 figures and 1 formula.

SUB CODE: 20/ SUBM DATE: 28Dec62/ ORIG REF: 002/ OTH REF: 001

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L 24324-66 EWT(1)/T/EWA(h) IJP(c) AT ACC NR: AT6009584 SOURCE CODE: UR/2910/63/003/03-/04	19/0425 45
AUTHORS: Banis, T. Ya. Banys, T.; Pozhela, Yu. K. Pozel	a, J
ORG: Institute of Physics and Mathematics, AN LitSSR (Instification of Physics and Mathematics, AN LitSSR (Instification of Physics and Mathematics, AN LitSSR (Instifuction of Physics and Ph	nstitute
TITLE: Determination of the inertia of carrier heating in a conductor	
SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 3, no 1963, 419-425	• •
TOPIC TAGS: semiconductor carrier, relaxation process, germ volt ampère characteristic	₹
ABSTRACT: This is a continuation of earlier work (Radiotekh elektronika v. 7, No. 9, 1 19, 1962) dealing with the relaxathe resistance of a semiconductor, and the time lag in the the carriers in a semiconductor by flow of current. Inasmucheating and the cooling of the carrier gas in the semiconductor	neating of the as the
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ACC NR: AT6009584

cannot occur instantaneously, the authors propose to investigate the relaxation of the resistance of germanium by determining the zeroth harmonic of the current flowing to the sample placed in a strong biased alternating electric field. It is shown first that the zeroth harmonic is strongly dependent on the relaxation resistance time. The differential equation for the resistance relaxation is solved and the equations for the integration constants are determined from the boundary conditions. It is then shown that by comparing the experimental null current in semiconductors having a prescribed volt-ampere characteristic it is possible to determine the relaxation time of the The method described makes it possible to determine carrier energy. very short relaxation times by microwave techniques. Preliminary measurements of the relaxation of carrier heating in germanium, carried out at 10 Gcs, show that the time is shorter than 10-11 sec. The method can be extended to include arbitrary volt-ampere characteristics and arbitrary resistance-relaxation processes. It is shown that in the fields whose period is close to the relaxation time of the carrier energy the zeroth harmonic of the current is very sensitive to the change in the relaxation time, which can be determined experi-Orig. art. has: 3 figures and 5 formulas. mentally. SUBM DATE: 28Dec62/ ORIG REF: 002 SUB CODE: 20/

ATTTHOD, D.	onia V I - Pogholo Vu K			35
AUTHOR: De	enis, V. I.; Pozhela, Yu, K.	27	27	尽
TITLE: Anis electric field	otropy of the conductivity of n g	germanium and n s	ilicon in cr	ossed
SOURCE: Re	f. zh. Fizika, Abs. 6E644			
REF SOURCE	: Lit. fiz. sb., v. 5, no. 4, 1	965, 515-528		
TOPIC TAGS	conductivity, anisotropy, ger	manium, silicon		
electric field electric field	The <u>conductivity</u> of n-Ge and n and perpendicular to it. For r is produced in direction < 111 ds of investigating this anisotre	$>$, ratio $\{\sigma_{f L}\}$	hat when a $J\sigma_{\parallel} = 5.3$.	strong Experi-
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SUB CODE:				

I 05296-07 MAT(m)/MAP(t)/EFF IJF(c) JD

ACC NRi ARGO31881

SOURCE CODE: UR/0058/66/000/006/E085/E085

AUTHOR: Kal'venas, S. P.; Pozhela, Yu. K.; Parshelyunas, I. V.; Versotskas, A. P.; Baravikas, V. V.

TITLE: Warmup of current carriers and their recombination on the surface of germanium in strong electric fields

SOURCE: Ref. zh. Fizika, Abs. 6E657

REF SOURCE: Lit. fiz. sb., v. 5, no. 4, 1965, 529-542

TOPIC TAGS: current carrier warming up, current carrier recombination, current carrier concentration, germanium

ABSTRACT: It has been ascertained that in n-Ge, starting with fields of the order of 1 kv/cm, considerable variations in carrier concentrations take place owing to the field dependence of the hot carrier recombination rate on the surface. In cases when mechanical defects or recombination centers related to the presence on the surface of dry oxide exists on the surface; there occurs a growth of current carrier concentration caused by the field. In the case of "neutralization" of the oxide recombination centers by water molecules, current carrier concentration in the

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specimen decreases considerably. An increase in the coefficient of an diffusion of current carriers with the field has been detected in the 1—field range. It is demonstrated experimentally that regardless of the t current carrier determining the surface conductivity of Ge etched in hy peroxide, the degree of current carrier heat-up at the surface is lower the bulk. [Translation of abstract]	ype of the drogen	n
SUB CODE: 20/		
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Card 2/2 29/2		

L 307.6.66 EATE. SOURCE CUDE: UR/2910/64/004/004/004/004/00484

AUTHOR: Banis, T. Ya. -- Banys, T.; Pozhela, Yu. K. -- Pozela, J.

ORG: Vil'nyus State Pedagogical Institute (Vil'nyusskiy Gosudarstvennyy pedagogicheskiy institut); Institute of Physics and Mathematics, Academy of Sciences, Lithuanian SSR (Institut fiziki i matematiki Akademii nauk Litovskoy SSR)

TITLE: Harmonics of a current passing through a germanium sample in a strong high frequency electric field

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 4, no. 4, 1964, 479-484

TOPIC TAGS: microwave, current carrier, waveguide, germanium, HF, ELECTRIC FIELO

ABSTRACT: The dependence of zero and higher harmonics of the current in n-type germanium as a function of the amplitude of the applied electric field is computed for different cases of inertia of heating of current carriers. Inertia of heating is expressed as

 $\frac{dE}{dt} = \frac{E_c - E}{\tau_{\dot{\epsilon}}} ,$

where E is the kinetic energy of a hot electron; E_c is the kinetic energy of a hot electron in the steady state and τ_c =f(E), but for purposes of calculation, is assumed

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constant. The applied electric field was taken to consist of a strong variable field. E sin ωt , and a weak constant field E_0 , $E_0 \ll E_m$. The formula

$$I_0 = \frac{1}{2\pi n} \int_0^{2\pi} \frac{m \sin \alpha + n}{r} d\alpha.$$

is derived for the amplitude of the zero harmonic, $\alpha=\omega t$. An expression is also derived for the amplitude of the kth harmonic. Using these equations, zero and higher harmonics were calculated on the BESM-2 for various values of E_{m} , E_{0} , and ω , and are

presented graphically. Experimental data was also obtained on germanium blocks $1.0 \times 1.0 \times 10$ (or 5) mm³. A limiting waveguide appropriate to the base frequency of 9.3 gigacycles was used as a filter to isolate the higher harmonics. Two types of filters were used, corresponding to waves of mode H_{10} and H_{30} ; two measuring lines whose resonators were tuned to the double and triple frequencies, respectively, registered the higher harmonic signals. The second harmonic amplitude is plotted as a function of field amplitude E_{m} for E_{0} =125, 100, and 50 v/cm and the third harmonic amplitude is plotted as a function of the power of the basic-frequency UHF signal. The power of

plotted as a function of the power of the basic-frequency UHF signal. The power of the third and fourth harmonics is on the order of tenths of watts, giving an efficiency coefficient of a fraction of a percent. The authors thank A. I. Vebre for his help with the measurements. Orig. art. has: 5 figures, 9 formulas.

SUB CODE: 09,20/

SUBM DATE: 22Jan64/

ORIG REF: 002/

OTH REF: 001

Card 2/2 111

AC AC M	30968-66 EMA(h)/EMI(1)/EMI(m)/EMP(b)/T/EMP(t) IJP(c) AT/JD SOURCE CODE: UR/O181/65/007/012/3512/3514 UTHOR: Kal'venas, S. P.; Pozhela, Yu. K. RG: Institute of Physics and Mathematics AN Litssr, Vil'nius (Institut fiziki i matematiki AN Litssr) PITLE: Recombination of hot carriers through recombination centers on the surface of germanium (21/44/1) COURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3512-3514 ROPIC TAGS: germanium, surface property, carrier density, electron recombination, electric conductivity ABSTRACT: This is a continuation of earlier work by the authors on the factors governing the carrier density in germanium under different conditions (FS v. 5, governing the carrier density in germanium under different conditions (FS v. 5, 1965, 1965 and earlier papers). The present investigation was aimed at obtaining face of germanium and consisted of investigating the surface characteristics in face of germanium and consisted of investigating the surface characteristics in the case of a heated carrier gas. The procedure employed was the same as described in the earlier paper, and permitted simultaneous observation of the effective lifetime of the carriers in the sample in strong and weak electric fields, fective lifetime of the carriers in the sample in strong and weak electric fields,
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and the dependence of these quantities on the magnitude and sign of the surface potential. From a study of the variation of the electric conductivity before and after application of the electric field (σ and $\Delta\sigma$ respectively, Fig. 1) it is concluded that the recombination is highly sensitive to oxidation or other factors capable of mechanically or chemically damaging the surface of the germanium. Orig. art. has: 1 figure.

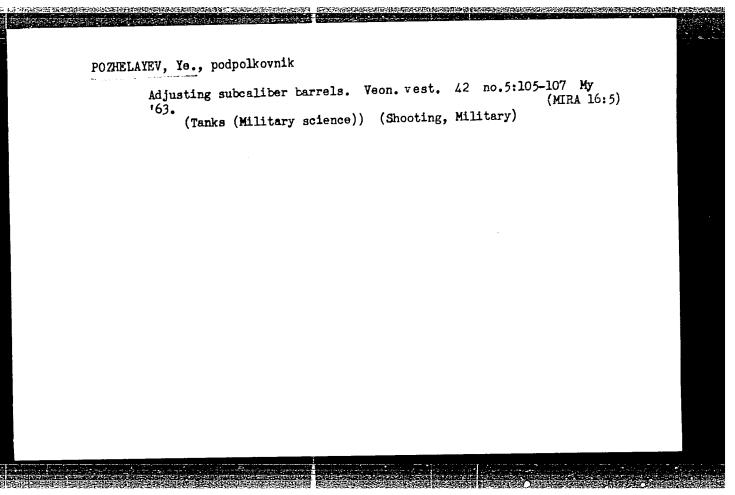
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Fig. 1. Plot of Δσ/σ vs. electric field intensity E for n-type germanium with different surface finishes, for different rates of surface recombination.

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	L 27865-66 EWI(1) IJP(c) CC ACC NR. AP5028463 SOURCE CODE: UR/0286/65/000/020/0030/0030	-
	INVENTOR: Pozhela, Yu. K.; Levitas, I. S.; Varyakonte, A. P.	
	ORG: none	
	TITLE: Superhigh-frequency and infrared radiation modulator. Class 21, No. 175535 [announced by the Institute of Physics and Mathematics (Institut fiziki i matematiki)]	
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 30	
	TOPIC TAGS: superhigh frequency modulation, infrared radiation modulator	
	ABSTRACT: This Author Certificate introduces a superhigh-frequency and infrared radiation modulator in the form of a waveguide with a semiconductor plate. To simplify the design of the device and to obtain the highest possible potential difference across the surface of the plate, the plate is made, for example, from a germanium single crystal so that its wide sides lie in the (110) plane and the current direction makes an angle of 30° with the (001) direction.	
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L 45281-66
ACC NR: AP6023570 (N) SOURCE CODE: UR/0401/66/000/007/0024/Q027

AUTHOR: Pozhetskas, I. (Warrant officer); Amanbayev, M. (Petty officer first class); Dalakov, G. (Petty officer second class); Golub, I. (Junior sergeant); Nilovovich, I. (Sergeant, Commander of marine section); Zaytsev, V. (Lieutenant)

ORG: none

TITLE: Naval landing operations

SOURCE: Starshina-serzhant, no. 7, 1966, 24-27

TOPIC TAGS: landing operation, military personnel, armored carrier, armored car/ASU-57 air drop launcher, vehicle

ABSTRACT: The article consists of six individual reports made by various participants in a combined arms-landing operation during military training exercises. Warrant Officer I. Pozhetskas, Master Sergeant in charge of a ship's engine room, describes the duties of his crew and the hazards of his work. Petty Officer First Class, M. Amanbayev, radar operator, describes his work at the radar screen as the ship approaches the beach. Petty Officer Second Class. G. Dalakov, in charge

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of the torpedo electricians section, tells of the part played by his ship in protecting the landing operation from enemy ships and submarines. Sergeant I. Golub, commander of an air drop launcher ASU-57, reports on his assignment to effect an airborne landing in the rear of the enemy forces and describes the landing operation as seen from the air. Sergeant I. Nivolovich, head of a marine unit, describes the assault of his men in armored carriers landing directly from the ships. Lieutenant V. Zaytsev, commander of a motorized infantry platoon, reports on the operations of his group, which landed in armored cars and was assigned to the destruction of enemy rocket installations and the prevention of a nuclear hit on the advancing units. Orig. art. has: 6 figures.

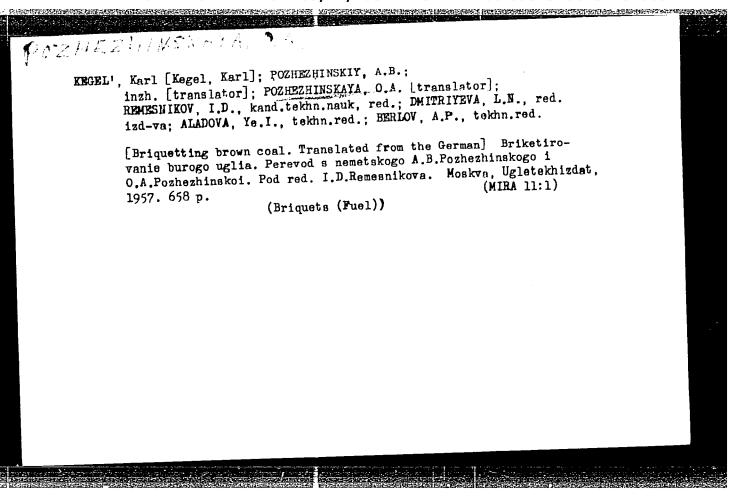
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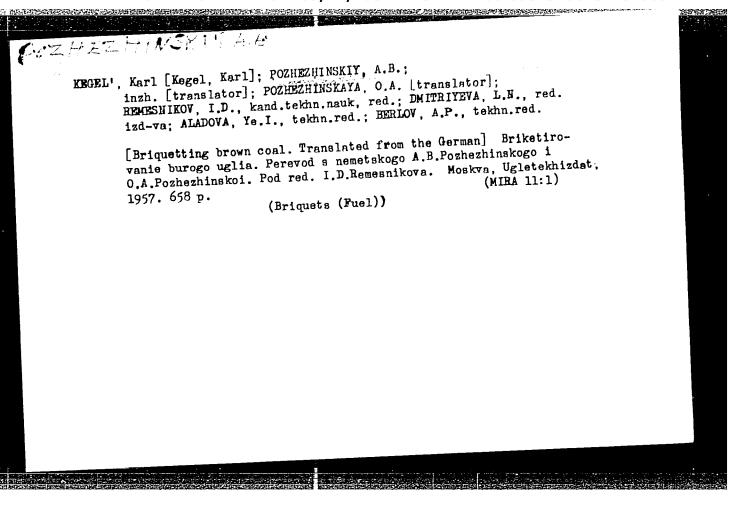
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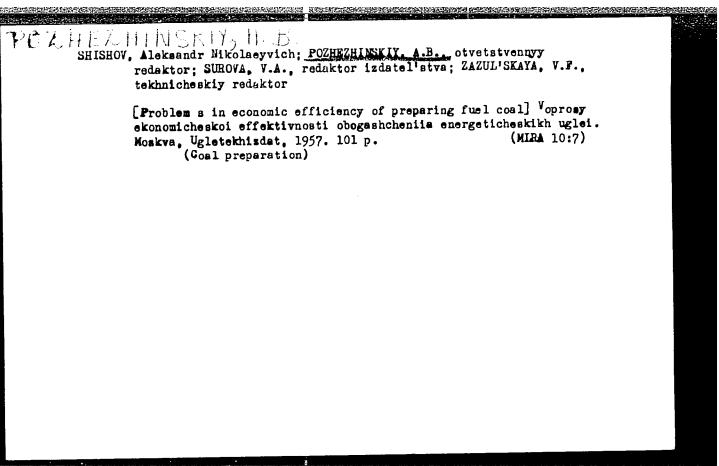
FUCHIK, Yulius [Fučik, Julius]; FOZHEZHINSKAYA, O.A. [translator]:

[Conquest of the North Fole; a report on the reality
which surpassed the phantasy of Jules Verne] Lavoevanie
Severnogo poliusa; reportazh o deistvitel'reati, kotoraia
prevzoshla fantaziiu Zhiuliu Verna. Leningrad, Gidrometeoizdat, 1964. 66 p.

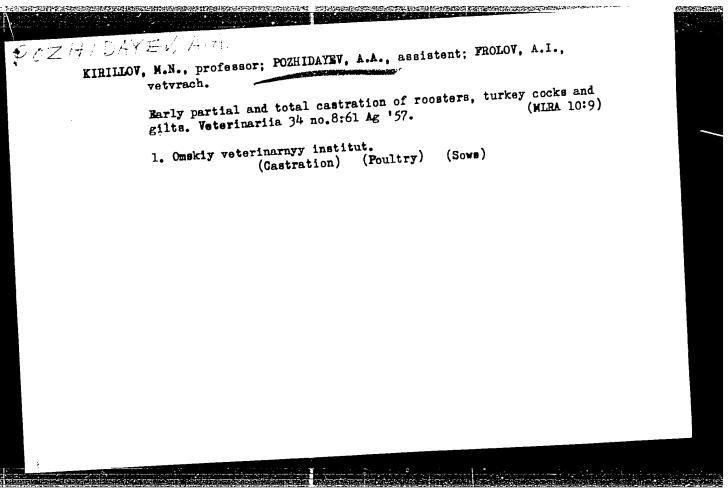
(MIRA 18:.)







ANDERSCH, O., zasluzhennyy deyatel' tekhniki Germanskoy Demokraticheskoy
Respubliki; POZHEZHINSKIY, A.B., inzhener, redaktor; ZARETSKIY, S.Ye.,
redaktor izdatel sivä; ALADOVA, Ye.I., tekhnicheskiy redaktor
redaktor izdatel sivä; ALADOVA, Ye.I., tekhnicheskiy redaktor
[Gonsise manual on the briquetting of coal. Translated from the
German] Kratkoe rukovodstvo po briketirovaniiu uglei. Perevod s
nemetskogo pod red. A.B.Pozhezhinskogo. Moskva, Ugletekhizdat,
nemetskogo pod red. A.B.Pozhezhinskogo. Moskva, Ugletekhizdat,
(Briquets (Fuel))



GORDIYENKO, M.I.; POZHIDATEV, A.T.

Hydraulic method of cleaning crossover underjet tubes of coke-oven standpipes. Koks i khim. no.4:31-32 '61. (MIRA 14:3)

1. Makeyevskiy koksokhimicheskiy zavod. (Makeyevka—Coke ovens)

PAKHOMOV, V.N.; POZHIDAYEV, A.V.; DENISOV, B.D.

Defects in air switches for electric arc furnaces. Prom. energ.
(MIRA 16:12)

18 no.ll:10-13 N '63.

PCCHIDNEY. A.

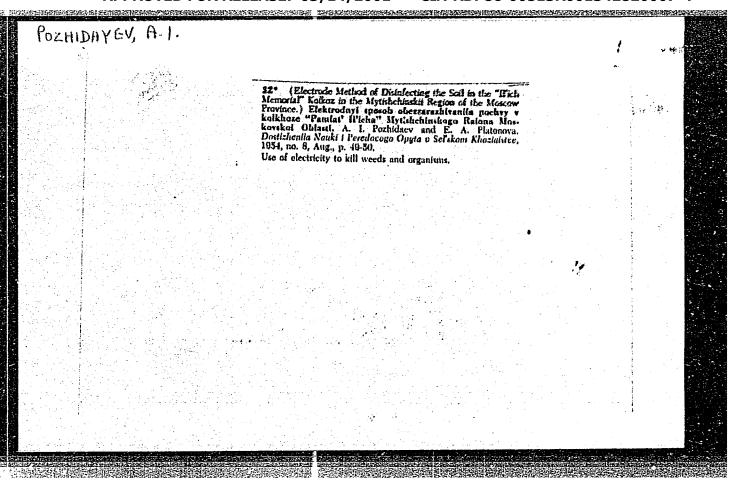
Marlinin, N.; Lachenko, V.; Pouhicaev. A.

When Methods In Construction And Heating Hethods. Tr. From The success.

p. 1418. (Za Socialisticke Zemed styl. Vo. 3, No. 11, Duc. 1953, Inches)

Vol. 2, No. 3.

So: Lonthly List of dast Jur. San Accessions,/Librar, of Congress, Largh 11.4, One.



Mechanical unloader for unloading bulk materials from flatcars. Suggested by I.I.Pozhidaev. Rats.i izobr. predl.v stroi. no.11:25-27 '59. (MIRA 13:3)

1. Nachal'nik transportnogo tsekha Bezmeinskogo tsementnogo zavoda, Turkmenskogo sovnarkhoza, Ashkhabadskaya oblast'. (Loading and unloading) (Building materials--Transportation)

POZHIDAYEV, I., mayor

On the road of his father. Voen. Znan. 41 no.5: 12-15 My '65.
(MIRA 18:5)

- 1. POZHIDAYEV, I.
- 2. USSR (600)
- 4. Telecommunication
- 7. Better management for district communications offices, Sov. sviaz., 3, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

FOZHIDAYEV, N.N.; PAVLOV, A.I.

Fourth Interuniversity Scientific Conference on Textiles.
Izv.vys.ucheb.zav.; tekh.leg.prom. 3:156-158 '62. (MIRA 15:6)

(Textile industry)

POZHIDAYEV, N.N., kand.tekhn.nauk, dotsept; PAVLOV, A.I., kand.tekhn.nauk, dotsent

KU-500 twist counter and methods for its operation. Izv.vys.ucheb.zzv.;
tekh.leg.prom. no.1:192-198 '63. (MIRA 16:3)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy materialovedeniya.
(Textile machinery) (Yarn—Testing)

- 1. VLADIMOVICH, I. I. and POZHIDAYEV, N. N.
- 2. USSR (600)
- 4. Textile Fabrics
- 7. "Study of clothing materials." N. A. Arkhanglskiy. Reviewed by I. I. Vladimovich, N. N. Pozhidayev. Leg.prom. 12 no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

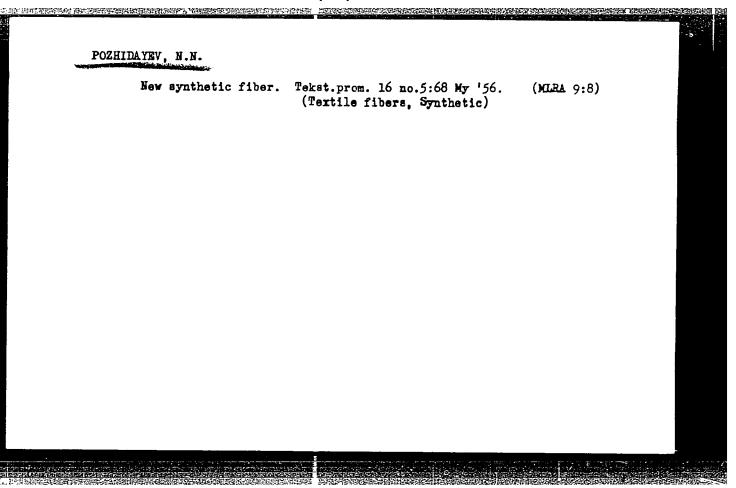
POZHIDAYEV. N.N.; SERGEYEV, V.Ya.; EHMELEVSKIY, B.P., dotsent, kandidat tekhnicheskikh nauk; MEN'KOV, V.G., dotsent; KOFMAN, D.M., kandidat tekhnicheskikh nauk.

Response to M.P.Gorbachev, V.S.Kudriavtseva, and T.A. Frolovaia's review of N.I.Truevtsev's book "Mechanical technology of fibrous materials". Tekst.prom. 15 no.1: 50-54 Ja '55. (MIRA 8:2)

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1. Zaveduyushchiy kafedroy materialovedeniya Kiyevskogo tekhnologicheskogo instituta legkoy promyshlennosti (for Pozhidayev). 2.Glavnyy inzhener fabriki tekhnicheskikh sukon kombinata im. Tel'mana (for Sergeyev). 3.Prepodavatel' Leningradskogo tekstil'nogo instituta (for Khmelevskiy, Men'kov and Kofman).

(Truevtsev, M.I.)(Textile industry)



PLINGTON POTT TO THE PROPERTY OF THE PROPERTY

POZHIDAYEV, N.N., dotsent.

Valuable manual on textile materials ("Textile materials; fibers and fabrics" by G.N. Kukina. Reviewed by N.N. Pozhidaev). Tekst. prom. 16 no.11:68-70 N '56. (MIRA 9:12)

1. Zaveduyushxhiy kafedrop materialovedeniya Kiyevskogo tekhnologi-cheskogo instituta legkoy promyshlennosti.

(Textile industry—Book reviews)

(Kukina, G.N.)

BUZOV, Boris Aleksandrovich; POZHIDAYEV, Nikolay Nikolayevich;
MODESTOVA, Tat'yana Alekseyevna; PAVLOV, Anatoliy
Ivanovich; FIEROVA, Lyudmila Nikolayevna; ZONUK,
Vladimir Luk'yanovich; SADYKOVA, F.Kh., dots., retsenzent;
KUKIN, G.N., prof., red.; GRACHEVA, A.V., red.

[Practical laboratory work on the study of materials for the clothing industry] Laboratornyi praktikum po materialovedeniiu shveinogo proizvodstva. [By] B.A. buzov i dr. Moskva, Legkaia industriia, 1964. 439 p. (MIRA 18:2)

PAVLOV, A.I., kand.tekhn.nauk, dotsent; POZHIDAYEV, N.N., kand.tekhn.nauk, dotsent; SIMONENKO, D.F., inzh.

New abrasion tester for textile fabrics and knit goods. Izv. vys. ucheb. zav.; tekh. leg. prom. no. 1:30-37 '60. (MIRA 14:5)

l. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy materialovedeniya.

(Textile fabrics—Testing) (Knit goods—Testing)

POZHIDAYEV, N.N.

Cotton mixing and cleaning processes in the organization of automatically controlled production lines. Izv. vys. ucheb. zav.; tekh. teks. prom. no. 2:43-48 161. (MIRA 14:5)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti. (Assembly-line methods) (Cotton spinning)

POZHIDAYEV, N.N.

Experience in manufacturing yarn from mixtures obtained in the blending of raw cotton in gins. Izv.vys.ucheb.zav.; tekh.tekst. prom. no.6:81-85 '60. (MIRA 14:1)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Gins and ginning) (Yarn)

PAVLOV, A.I., kand.tekhn.nauk, dotsent; POZHIDAYEV, N.N., kand. tekhn.nauk, dotsent; SIMONENKO, D.F., inzh.

Methods for testing the resistance of textile fabrics to abrasion on the TI-1 apparatus. Izv. vys. ucheb. zav.; tekh. leg. prom. no.2:36-41 '60. (MIRA 13:11)

1. Kiyevakiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy materialovedeniya. (Textile fabrics--Testing)

Mixing capacities of saw gins. Izv.vys.ucheb.zav.; tekh.tekst.prom.
no.2:41-45 160.

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Cotton gins and ginning)

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[Textile materials for the clothing industry] Materialovedenie shveinogo proizvodstva. Pod obshchei red. N.N.Pozhidaeva. Kiev. Gos.izd-vo tekhn.lit-ry USSR, 1959. 411 p. (MIRA 13:2) (Clothing industry) (Textile fabrics)

POZHIDAYEV, N.N., kand.tekhn.nauk, dots.

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1. Zamestitel' direktora Kiyevskogo tekhnologicheskogo instituta legkoy promyshlennosti po nauchnoy rabote. (Kiev-Technical education)

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CIA-RDP86-00513R001342820007-4

POZHIDAYEV, N.N.

Pozhidayev, N.N., Dotsent

3-6-18/ ?9

AUTHOR:

The Institute and Production (Institut i proizvodstvo)

TITLE:

Vestnik Vysshey Shkoly, 1957, # 6, pp 70-71 (USSR)

PERIODICAL: ABSTRACT:

The article describes the close cooperation between the Kiyev Technological Institute for Light Industry (Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti) and the plants and factories of the Ukraine. Thus, for instance, the Candidates of Technical Sciences G.A. Piskorskiy, L. P. Ivanovskaya and N.A. Adamova in cooperation with Engineers Ye. A. Pepenyuk and G. I. Muzychenko of the Kiyev Sewing Machine Plant imeni Smirnov-Lastochkin "Ukraina" (Kiyevskiye shveynyye fabriki "Ukraina" imeni Smirnova-Lastochkina), are working on the mechanization and automation of spreading cloth in the cutting rooms of the plant. The Institute is manufacturing a new kind of artificial fiber from the wastes containing animal albumen of the leather, meat, and fish industries. The samples of fiber obtained resemble in their outer appearance natural wool

The instructors of the Chair for Physics and Automation, and are almost as durable. B. I. Lutsyk and others have, in conjunction with the workers

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The Institute and Production

of the Kiyev Knitted Wear Factory imeni R. Luxemburg (Kiyevskaya trikotazhnaya fabrika imeni R. Lyuksemburg), designed a photoelectronic automatic brake for knitting machines. The device was sent to the All-Union Industrial Fair. In cooperation with the Central Scientific-Research Institute for the Knitting Industry (Tsentral'nyy nauchno-Institute for the Knitting Industry (Tsentral'nyy nauchno-Institute for Textile and the Central Scientific-Research Institute for Textile and the Central Scientific-Research Institute for Textile and the Construction (Tsentral'nyy nauchno-issledovatel'skiy Machine Construction (Tsentral'nyy nauchno-issledovatel'skiy institut tekstil'nogo mashinostroyeniya) the Chair has raised institut tekstil'nogo mashinostroyeniya) the Chair has raised institut tekstil'nogo mashinostroyeniya in charge of the Chair for

Dotsent Ya. I. Yesipenko, in charge of the Chair for Machine Parts, has developed a standard drive with speed variation for conveyers used in the shoe industry. The variation for conveyers used in the shoe industry, Experimental Plant of the Ministry for Light Industry, Experimental Plant of the Ministry for Light Industry, Ukrainian SSR, has begun series production of this device.

Dotsent L. B. Peysakhzon, Candidate of Technical Sciences,

Dotsent L. B. Peysakhzon, Gandidate of Teomissand G. S. L. Alekseyeva, Candidate of Economic Sciences, and G. S. Mesezhnikov have, in cooperation with the technical personnel of the Kiyev Shoe Factory No 1 (Kiyevskaya obuvnaya fabrika No 1), reorganized the work of the cutting room by applying a

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single-cradled shuttle conveyer (odnolyulechnyy chelnochnyy transporter). This resulted in an increase of production. The Dotsents I. V. Orlov and G. L. Trukhan are mentioned as having developed a new shoulder padding construction and a method of shaping patterns for the mass production of clothing. The Technical Council of the Ukrainian Ministry of Light Industry has approved the methods which are now undergoing tests at the House of Models.

ASSOCIATION:

The Kiyev Technological Institute of Light Industry (Kiyevskiy tekhnologicheskiy institut legkoy promyshlenn-

osti)

AVAILABLE:

Library of Congress

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CIA-RDP86-00513R001342820007-4" APPROVED FOR RELEASE: 03/14/2001

3-58-6-7/34

AUTHOR:

Pozhidayev, N.N., Dotsent, Candidate of Technical Sciences

Together with the Sovnarkhozes We Are Solving the Industrial TITLE:

Problems (Sovmestno s sovnarkhozami reshayem proizvodstvennyye

zadachi)

PERIODICAL:

Vestnik Vysshey Shkoly, 1958, Nr 6, p 31-33 (USSR)

ABSTRACT:

The scientific staff members of the Kiyev Technological Institute of Light Industry established close business relations with the Republic's sovnarkhozes from the very moment of their organization. The studies of the scientific workers on urgent scientific research and experimental designing themes, carried out on a contract basis closed between the institute chairs and the enterprises of the light industry of the Kiyev sovnarkhoz, proved to be the most promising work. The workers of many chairs are participating in it. Thus, the members of the Chair of Technology of Tailoring and Knowledge on Material, the Dotsents I.V. Orlov, G.L. Trukhan, A.I. Pavlov and others, are working on theory and methods of designing clothing for mass production. The properties of knitted fabric made of different artificial fibers is being studied by members of the

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Together with the Sovnarkhozes We Are Solving the Industrial Problems

Chair of Technology of Knitted Wear, the Dotsents L.P. Ignatova, A.B. Golovushkina, senior instructor F.A. Moiseyenko and others. This work is being conducted in close cooperation with the Kiyevskaya trikotazhnaya fabrika imeni Rozy Lyuksenburg (Kiyev Knitted Goods Factory imeni Roza Luxenburg). The reasons for wear and tear and the wear-resistance of rubber and leather, and how to protect shoes against wear and tear are problems which workers of the Chair of Leather Technology, Professor M.P. Kotov, Dotsent N.I. Chechenev, Candidate of Technical Sciences G.V. Zhila and others are solving. The Chair of Technology of Shoe Production (Dotsent A.A. Afanas'yev, Candidate of Technical Sciences V.A. Skaternoy, the instructors V.I. Tolochko, G.I. Roslik and others) is working on questions of automation of shoe production processes. Instructors of the Chair of Industrial Automation V.I. Lutsyk, K.G. Rego and others have designed an automatic stopping device for knitting machines. At present, 6 automatic stopping devices, made by the Kiyev Experimental Workshops of the UkrSSR Gosplan, are being tested at the Kiyev Knitted Goods Factory. A.P. Repetin, Dotsent of the Chair of Electrical Engineering

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has studied the specific rates of expenditure of electric power at the Kiyevskaya obuvnaya fabrika Nr 1 (Kiyev Shoe Factory Nr 1). Many of his suggestions are at present being utilized at the factory. Together with the Kiyev Knitted Goods Factory, the Chair of Thermotechnics (Dotsent P.Ye. Dushskiy, Candidate of Technical Sciences M.K. Terenetskaya) has carried out studies on the boilers and the enterprise's heat economy. At present, 7 institute instructors, including Professor M.P. Kotov, Dotsents I.V. Orlov, L.P. Ignatova and others, are members of technical councils of the Kiyev Sovnarkhoz. The article contains other examples of the institute's cooperation with the sovnarkhozes of the Ukraine, such as delivery of lectures and reports, and conducting scientific conferences.

ASSOCIATION: Kiyevskiy tekhnologicheskiy institut legko promyshlennosti (Kiyev Technological Institute of Light Industry)

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MODESTOVA, Tat'yana Alekseyevna; FLEROVA, Lyudmila Nikolayevna; EUZOV,
Boris Aleksandrovich; KUKIN, G.K., prof., retsenzent; POZEIDAYEV, N.N.,
dotsent, retsenzent; VARSHAVSKAYA, L.S., red.; MEDVEDEV, L.Ya.,
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promyshl., 1957, 438 p.
(Clothing industry--Equipment and supplies)

SHNITKO, L.I.; LZYYANT, G.A.; MARTYNOV, M.M.; FOZHIDAYBY, V., red.;
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[Hidden capacities of the railroads in White Russia] Rezervy
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